Multi-unit residential construction is growing both in California and nationwide, with the number of units to be delivered in 2015 expected to surpass pre-recession averages. With such growth, improving the environmental performance of this building type is essential to meet California’s energy goals for zero net energy buildings while addressing other issues such as land use, water, transportation and human health.

What are the key issues affecting design, construction, liability, and operation of multi-family buildings in an urban context? A panel of experts will explore the issues related to sustainable urban housing in multi-unit buildings, in ways that further sustainable design at the neighborhood level as well.

The in-person program qualifies for 6 AIA Continuing Education learning units/HSW.

October 7, 2015
8:30 AM – 4:00 PM
Pacific Energy Center
851 Howard Street, San Francisco
Also available by live webcast

Registration
Space is limited; pre-registration is recommended.

Register for San Francisco class: [www.goo.gl/w6L5Bi](http://www.goo.gl/w6L5Bi)
Register for live webcast: [www.goo.gl/f4NR4s](http://www.goo.gl/f4NR4s)

This event is free and open to the public, presented by the ASHRAE Golden Gate Chapter, co-sponsored by the Center for the Built Environment (CBE), at the University of California, Berkeley, and PG&E.

Organizing Sponsors

ASHRAE
Golden Gate Chapter
[www.ggashrae.org](http://www.ggashrae.org)

Center for the Built Environment (CBE)
University of California, Berkeley
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[www.cbe.berkeley.edu](http://www.cbe.berkeley.edu)

Pacific Gas and Electric Company
Pacific Energy Center
415.973.2277
[www.pge.com/pec](http://www.pge.com/pec)
Agenda

8:30 am  Development Issues: Paul Zeger, Partner, Polaris Pacific  
Transportation: John Holtzclaw, Consultant

9:30 am  Coffee Break

9:50 am  Sustainability and Land Use: Joe DiStefano, Principal/Co-Founder,  
Calthorpe Analytics  
Quality Assurance: Bruce Furakawa, Partner, Long & Levit LLP

11:20 am  Panel Discussion: Morning Speakers

11:45 am  Lunch Break

12:45 pm  Architecture & Design: Sylvia Kwan, FAIA, Chairman, Kwan Henmi Architecture  
Technical Design Issues: Keith Boswell, FAIA, Technical Partner, SOM  
HVAC System Design: Steve Taylor, PE, Principal, Taylor Engineering; and  
Eric Soladay, PE, Managing Principal, Integral Group

2:35 pm  Afternoon Break

2:55 pm  Automation & Smart Homes: Joshua Mooney, Technical Program Manager,  
Nest Thermostats  
Renewable Energy: Cole Roberts, Associate Principal, Energy & Resource  
Sustainability, Arup

3:35 pm  Panel Discussion: Afternoon Speakers

4:00 pm  Adjourn

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Speakers

C. Keith Boswell, FAIA
Technical Partner, SOM

As Technical Partner of SOM’s West Coast Practice, Keith is actively engaged in development of firm wide technical design and SOM projects from concept design through completion orchestrating detailed designs and construction documentation for all SOM West Coast projects. His experience includes high-rise office buildings, government projects, museums, university buildings, retail spaces, and international and domestic airport passenger terminals.

Joe DiStefano
Principal & Co-Founder, Calthorpe Analytics

Joe is an urban planner with 20 years of experience US and international experience in land use and transportation planning and policy at the regional, corridor, and local levels. He leads the development and deployment of the RapidFire and UrbanFootprint modeling platforms, new models and software tools that bring critical information to land use planning decisions, energy and water resource choices, and the environmental, public health, and social equity challenges of our times.

Bruce Furakawa
Partner, Long & Levit LLP

Bruce is a Partner in the Design Professionals Defense & Counseling Group, primarily representing and counseling architects and engineers. He has represented design professionals, contractors, and owners in a wide range of projects including municipal works, transportation projects, commercial high-rises, waste-water treatment plants, wetland development, and residential projects. As an experienced trial attorney, Mr. Furukawa has litigated complex construction delay and cost claims, construction defect, land use and personal injury lawsuits.

John Holtzclaw
Consultant

John is a consultant in transportation, urban development, energy consumption and air quality. He is volunteer Co-lead of the Sierra Club’s Transportation Committee, helped organize and is on the board of the San Francisco League of Conservation Voters, and on other environmental boards. He has a Ph.D. in Urban Sociology, B.S. in Engineering Physics, and M.S. in Nuclear Engineering. His research, for NRDC, STPP and CNT, measured how residential density, transit, and pedestrian/bicycle friendliness reduce auto ownership and driving.

Sylvia Kwan, FAIA
Chairman & Founder, Kwan Henmi Architecture & Planning

Sylvia founded Kwan Henmi Architecture/Planning, Inc. in 1980 with a commitment to the success of her clients and the realization of their design objectives. Sylvia brings extensive knowledge on the complex issues concerning building housing projects. She has served as Principal-in-Charge for many of Kwan Henmi’s sustainable housing projects, ranging from medium to high density, adaptive reuse, as well as new construction.

Joshua Mooney
Technical Program Manager, Nest Thermostats

Before joining Nest, Joshua was Chief Operating Officer for Adura Technologies. He has assisted in ramping up operations for multiple startups, focused on building hardware and software in the connected home and clean energy arenas. He has a strong interest in developing intuitive software interfaces that allow customers to operate more efficiently and intelligently. His strong technical understanding of software development enables him to communicate clearly and efficiently with engineering teams.
Cole Roberts
Associate Principal – Energy & Resource Sustainability, Arup

Cole Roberts leads the energy and resource sustainability business in Arup’s San Francisco office. Specializing in design, planning, and consultation in the new and existing built environment, Cole has led dozens of projects to successful LEED certification and ZNE achievement, including numerous platinum and gold awards. His work beyond the scale of individual buildings, from climate positive communities, integrated infrastructure plans, and energy and climate policy is recognized as unconventional, inspiring, and synergistic.

Eric Soladay, PE
Managing Principal, Integral Group

Eric Soladay is an innovative, collaborative and goal-oriented mechanical engineer responsible for the development and delivery of high performance buildings. With a focus on building occupants and end users, and a team approach to executing complex projects, Eric’s work embodies holistic sustainable design and efficient systems, healthy environments, and maintenance-conscious designs. Eric brings a calm and reliable creativity to the art of engineering the built environment.

Steve Taylor, PE
Principal, Taylor Engineering

Steve is a registered mechanical engineer, specializing in HVAC system design, control system design, indoor air quality engineering, computerized building energy analysis, and HVAC system commissioning. Mr. Taylor graduated from Stanford University with a B.S. in Physics and a M.S. in Mechanical Engineering. He has over 30 years of commercial HVAC system design and construction experience. He has served on a number of committees, including ASHRAE, USGBC, CSU Mechanical Review Board, and IAPMO Mechanical Technical Committee.

Paul Zeger
Partner, Polaris Pacific

Paul Zeger is a Partner with Polaris Pacific, a sales and marketing firm working with developer clients. For over 30 years, Paul has been the definitive source of information for new construction sales and marketing in the Bay Area. His leadership in identifying and capitalizing on residential development opportunities is unparalleled. Paul’s client relationships include some of the most successful real estate development firms on the west coast – including TMG Partners, Emerald Fund, Lennar Urban and Wilson Meany.